



Campus meets Symfony2

Overview and hands on

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About Symfony2

- PHP framework (PHP \geq 5.3)
- Created by Fabien Potencier, managed + supported by SensioLabs
- Great documentation + community, commercial training and certification

Concepts

- Separation of Concerns (e.g. using dependency injection, mvc, bundles)
- Consists of loosely coupled components.
- Everything is a bundle.
- Use other people's code: vendors
- Security build-in
- Environment: Dev != Test != Prod

Sample project

- Based on Symfony2 standard edition (version 2.1.2)

```
php composer.phar create-project  
symfony/framework-standard-  
edition hello-campus/ 2.1.2
```

- [http://localhost/hello-campus/web/
app_dev.php](http://localhost/hello-campus/web/app_dev.php)
- Developer bar, directories of project

MVC

- Model: entity and repository, e.g. using Doctrine, Propel, ... as backend
- View: twig, plain php, ...
- Controller: handle user requests, connect model + view
- Example:
http://localhost/hello-campus/web/app_dev.php/demo/hello/Campus

Database

- Doctrine2: OR-mapper, DB abstraction layer
- Nice features:
 - Supports code first and db first
 - Auto-generate getter/setter
 - auto set insert/update timestamps via attributes
 - Tree
- Command line: database updates + migration
- EXAMPLE:
`php app/console doctrine:generate:entity`

Controller

- Connects models and views
- Routing
 - Defined as annotation, config or code
- Automatically calls controller :: method for url, handles defined url parameters
- Example: generate CRUD

```
php app/console doctrine:generate:crud
```

View: twig, Forms, ...

- Twig
 - template engine with loops, encoding of output variable
 - <http://twig.sensiolabs.org/documentation>
- Forms
 - FormBuilder, derives types from entity model
 - Easy to use + extend, secured against CSRF
 - <http://symfony.com/doc/current/book/forms.html>

Bundles

- Managed with composer (since SF 2.1)
- Great bundles <http://knpbundles.com/>
 - FOS User Bundle
 - Sonata Admin backend
 - Mopa Bootstrap + lessphp
 - Stof Doctrine Extensions Bundle

Testing

- Prepared for PHPUnit
- Easy to use, automatically generated
- Supports functional and client tests
- <http://symfony.com/doc/current/book/testing.html>

Assets

- Assetic: optimize resources
- Build and optimize js + css with filters
 - pre-processing with compass, less/sass
 - combine, minify with YUI compressor
 - Development environment: separate files, no YUI
- http://symfony.com/doc/current/cookbook/assetic/asset_management.html

Caching

- Build-in, prepared for PROD
- Available for db, templates, requests, ESI, ...
- http://symfony.com/doc/current/book/http_cache.html
- Tipps, tricks + solutions:
<http://slides.seld.be/?file=2011-10-20+High+Performance+Websites+with+Symfony2.html>

Deployment

- Capifony = one command deployment
- Scenario:
 - code in github
 - deploy from github to prod server, perform db migration + initialization (if required)
- <http://capifony.org/>



Related projects

- Symfony2 Content Management Framework:
<http://cmf.symfony.com/>
- SILEX micro framework:
<http://silex.sensiolabs.org>
- Command line applications:
<http://cilex.github.com/>

Next steps & further reading

- Great docs <http://symfony.com/docs/>
- Cookbook
<http://symfony.com/doc/current/cookbook/>
- Download <http://symfony.com/download>

Events

- 31.10.2012: Symfony User Group Zürich
<http://www.meetup.com/sfugzh/events/80212212/>
- 22.-23.11.2012: Symfony Live 2012 Berlin
<http://berlin2012.live.symfony.com/>

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- Now or in the break
- twitter: [@tobiaskluge](https://twitter.com/tobiaskluge)